

Anterra Kennedy

DATA SCIENTIST

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Education

BS Physics

University of Denver, 2017

Minors: Astrophysics, Math, French
President: Society of Physics Students

Skills

Languages

Python
SQL
Git
HTML/CSS

Libraries

Pandas
NumPy
Scikit-Learn
NLTK
Beautiful Soup
Selenium
Flask
Tensorflow
Keras

Machine Learning

Algorithms

Regression
Classification
Clustering
Dimensionality Reduction
Natural Language Processing
Unsupervised Learning
Bi-Directional LSTM
Neural Networks

Visualizations

Matplotlib
Seaborn
Tableau
Unity

Other

Communication
Initiative
Collaboration
Web Scraping

Experience

Data Scientist

JUNE - SEPT 2020

Metis

Designed and executed five end-to-end machine learning projects during 12 weeks of immersive training in data mining, analysis, and machine learning, and was selected as TA for the following cohort.

PROJECTS:

- **Vinyasa Krama: AI-Generated Yoga Classes**
 - . Created an app which generates complete, well-structured and unique yoga classes, custom to a user's desired 'peak' pose, at the click of a button.
 - . Utilized the Unity game engine to build a 3D interface of a yoga teacher who demonstrates the class for the user to follow along with.
 - . Leveraged deep learning and trained a bi-directional LSTM for sequence prediction.
 - . **Tools:** LSTM BRNNs, Tensorflow, Keras, Word2Vec, Transfer Learning, Flask, Unity
- **The Unsupervised Self**
 - . Discovered similarity between descriptions of consciousness in quantum mechanics & eastern philosophy as an approach to the mind-body problem, with NLP & unsupervised learning.
 - . **Tools:** topic modeling with LDA, LSA, NMF, CorEx; visualization of topic similarity with pyLDAvis, document type similarity with PCA and t-SNE; NLP pre-processing including CountVectorizer & SpaCy for lemmatization
- **Yoga Class-ification**
 - . Classified yoga sequences into 8 different genres, based only on the poses practiced.
 - . Built a flask app where yoga teachers can create classes, and have them classified.
 - . Handled multi-class classification problem and class imbalance.
 - . **Tools:** Classification algorithms (Logistic Regression, KNN, Decision Tree, Random Forest, Naive Bayes, XGBoost), ML Pipeline, ROC-AUC Curves, Sci-kit Learn, Flask, HTML/CSS
- **Hidden Gems: Finding the Best Secret Trails in America**
 - . Applied a linear regression model to 40,000 hiking trails to find the best undiscovered ones.
 - . **Tools:** Linear Regression, VADER Sentiment Analysis NLP, web scraping with Selenium & BeautifulSoup, Pandas, StatsmodelsOLS, Feature Engineering and LassoCV

Optician

JUNE 2018 - APR 2020

Alberta Eye Care

Leveraged a thorough understanding of optics as applied to the optometric field, to offer patients unparalleled sight.

Aerospace Engineer

JUNE 2017 - JUNE 2018

Pioneer Astronautics

Designed and developed novel in-situ resource utilization technologies for NASA, innovated to aid in the exploration of Mars.

PROJECTS:

- . Advanced Mars Water Acquisition System (NASA SBIR Phase 1)
- . Extraterrestrial Metals Processing System (NASA SBIR Phase 2)
- . Optimization of Spirulina Production for Spaceflight (TRISH Proposal)